Diamond Gard ™ EIR SPC Flooring

Product description: 1220 x 153 x 3.2 mm

Technical Data Sheet

Edition 02.2022

Level of use 34 - Very Heavy Commercial (Areas with intense use)

ISO 10874 / EN 685

	Characteristics	Requirements	PD Values	Test Method
General appearance	Openings between elements, *(o)*	*o* average ⩽ 0,15 mm	*o* average ⩽ 0,04 mm	ISO 24337
		o max. ⩽ 0,20 mm	*o* max. ⩽ 0,06 mm	
	Height difference between connected elements, (*h*)	*h* average ⩽ 0,10 mm	*h* average ⩽ 0,05 mm	ISO 24337
		h max. ⩽ 0,15 mm	*h* max. ⩽ 0,06 mm	
	Flatness of the element - in the length, (f_l)	f_l, concave ⩽ 0,50 %	f_l, concave ⩽ 0,00 %	ISO 24337
		f_l, convex ⩽ 1,00 %	f_l, convex ⩽ N/A %	
	Flatness of the element - in the width, (f_w)	f_w, concave ⩽ 0,15 %	f_w, concave ⩽ 0,02 %	
		f_w, convex ⩽ 0,20 %	f_w, convex ⩽ N/A %	
Dimensional stability due to variation of temperature		⩽ 0.25%	Length average -0.05% Width average -0.05% Curling average 0.10mm	ISO 23999
Color fastness	Cycle A1, Method 3	N/A	Grade 6	ISO 105-B02
Abrasion resistance		⩾4000 cycles	**>4000 cycles**	**EN 13329**
Scratch resistance		N/A	**Rating 3**	**ISO 4586-2**
Micro-scratch resistance	**Procedure A**	⩽ MSR-A2	**MSR-A1**	**EN 16094**
	Procedure B	⩽ MSR-B2	**MSR-B1**	
Stubbed cigarette test	**Method A**	N/A	**⩾Rating 5**	**EN 1399**
Impact resistance	Big ball	No Break or Crack	No Break or Crack	ASTM F1265
Castor chair resistance		25 000 cycles, No damage	Pass 25000 cycles	EN 425
Thickness swelling	Length direction	⩽ 12 %	0.04%	ISO 24336
	Width direction			
Locking strength - long side		fl0,2 ⩾ 2.0 kN/m	6.12	ISO 24334
Locking strength - short side		fs0,2 ⩾ 3.5 kN/m	5.69	
Resistance to staining	group 1 and 2	Grade 5	Grade 5	EN 438-2
	group 3	Grade 4	Grade 4	
Additional features if applicable				
Phthalate content test		0.10%	Not detected	EN 14372
Heavy metal migration		Limit 10mg/kg - 100mg/kg	Not detected	EN 71-3
SVHC (Substance of very high concern)		Report limit 0.05% (whole product)	Not detected	REACH
IIC (Calculated Impact Insulation Class)		N/A	54	ASTM E492-09
STC (Calculated Sound Transmission Class)		N/A	53	ASTM E90-2009
Dimensional Stability		Residential, ⩽0.25% Commercial, ⩽0.2%	0.03%	ASTM F3261-20
Curling		⩽0.080in	0.024in	ASTM F3261-20
Resistance To Chemicals		N/A	Pass	ASTM F925
Adhesion By Tape Test	Method B	N/A	5B	ASTM D3359-17
Dry Film Hardness		N/A	8H	ASTM D3363
Slip resistance		N/A	Rating 10	DIN 51130